

18. Your system is now ready to be recabled and to verify that it is operational:

Go to Section 2, "Setup."

Note: If you have any problem after installation, one of the following is the most likely cause:

- 64/256KB Memory Option
- Improper cabling
- Other options may have loosened
- Switches improperly set

Memory Board 256K

1011 0001

Mother Board SW1 SW2
01000011 10001000

CPC

HNC3-3074 x1

285-585 ' 519-531
Head 2
Google 125

Option Instructions

64/256KB Memory Expansion Option

For



The warranty terms and conditions applicable in the country of purchase in respect of an IBM Personal Computer product are available from the supplier. Please retain them with your proof of purchase.

Any US Option Instructions without the above warranty notice are inapplicable and should be ignored.

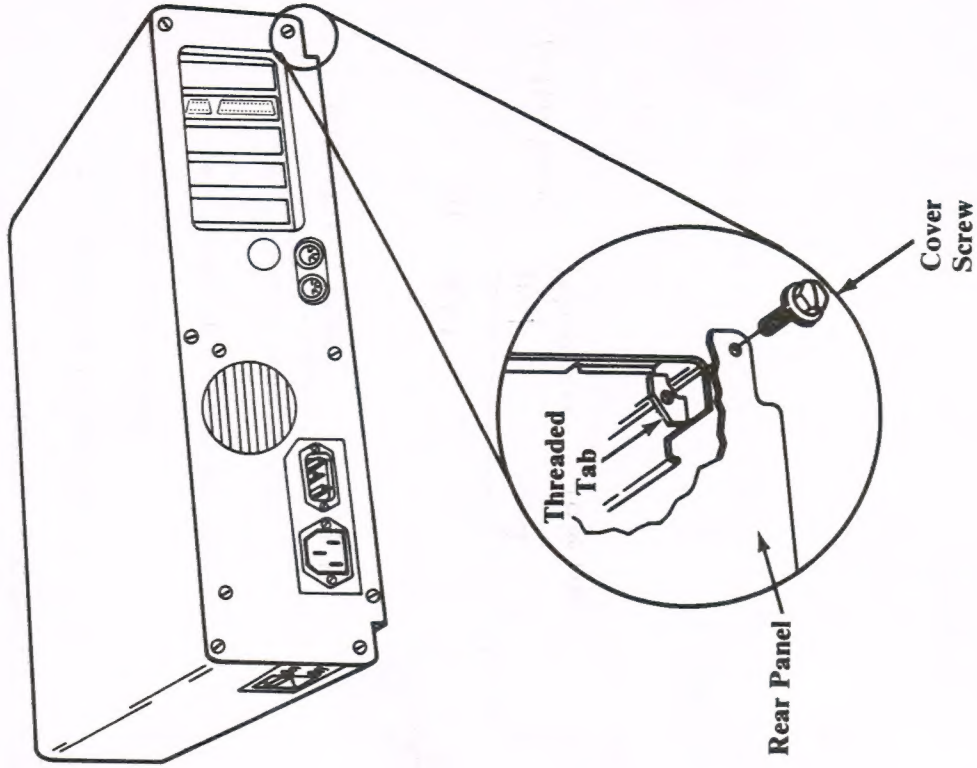
No statements contained in this documentation shall affect the statutory rights of consumers.

This option consists of:

- 64/256KB Memory Expansion Option

If any items are missing or damaged, notify your place of purchase.

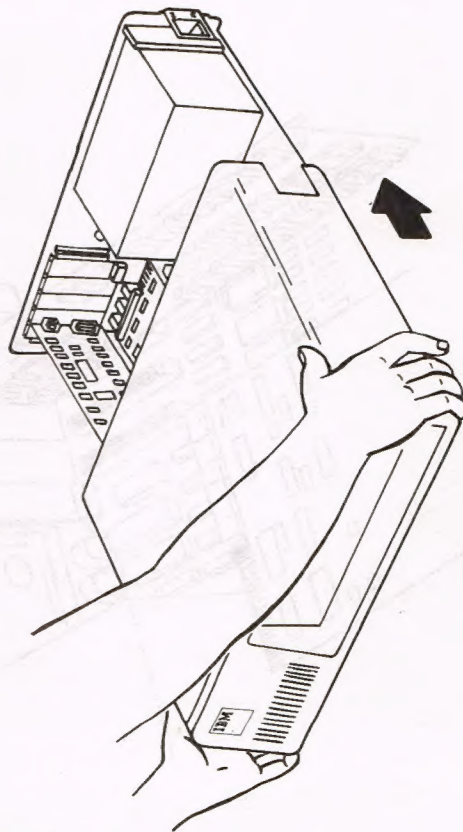
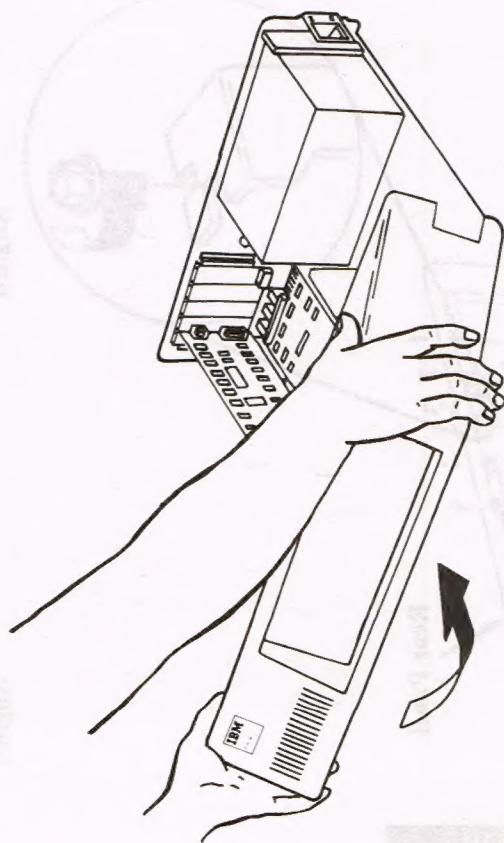
- 17.** When the cover is all the way to the rear, align the screw with the threaded tabs and tighten. Use a flat-blade screwdriver or 1/4-inch nutdriver and turn clockwise.



MEMORY

15. If you have an expansion unit attached, go to the expansion unit option installation procedures and set the switches on the extender card to reflect the total system memory.

16. If you have any other options to install in the system unit, do so now before putting the cover back on. Put the system unit's cover on by positioning it as shown and carefully sliding it toward the rear of the unit.

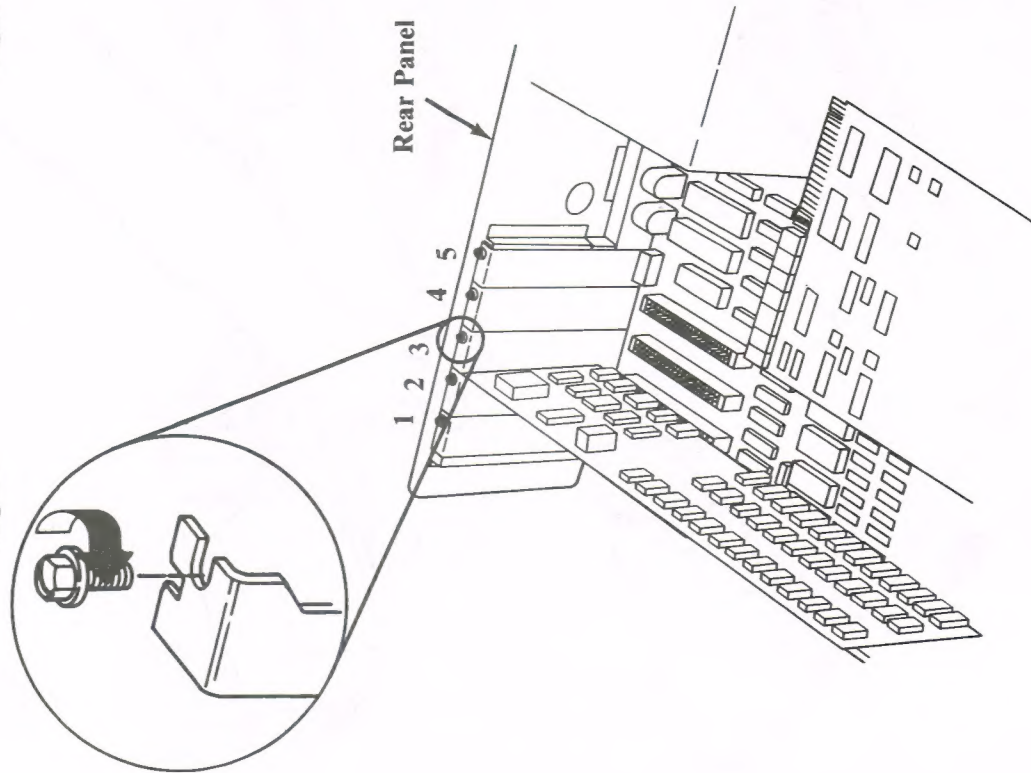
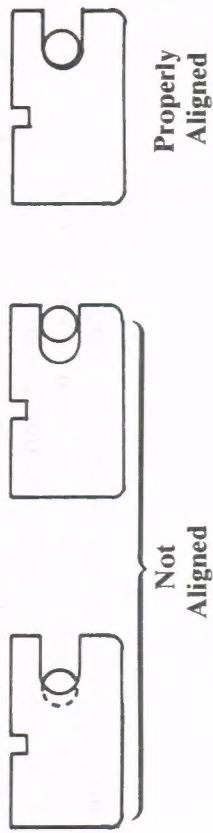


Contents

Installation Requirements	3
Tool Required	3
Installation Instructions	5
Switch Setting Charts	12
System Board Switches	12

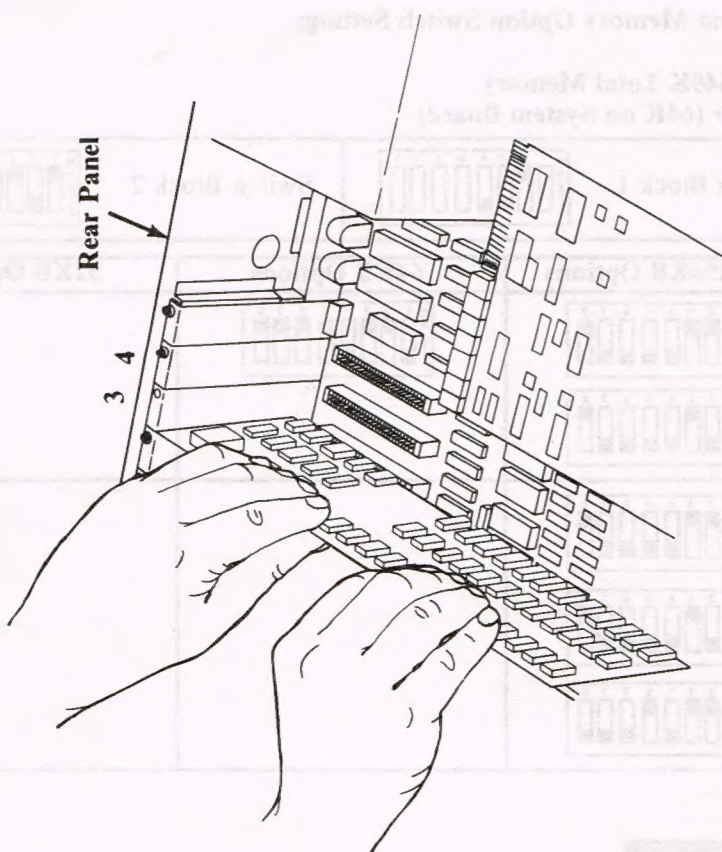
Notes:

- 14.** Align the slot in the option retaining bracket with the hole in the rear plate of the system unit. Start the screw clockwise, then tighten with a flat-blade screwdriver or 3/16-inch nutdriver.



MEMORY

13. Hold option by the top and firmly press it into the expansion slot as shown below.



Installation Requirements






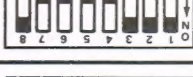
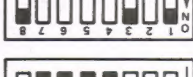
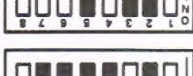
Your system board must be at its maximum capacity of 64K memory before installing this option.

Tool Required

- Medium-size, flat-blade screwdriver

Optional:

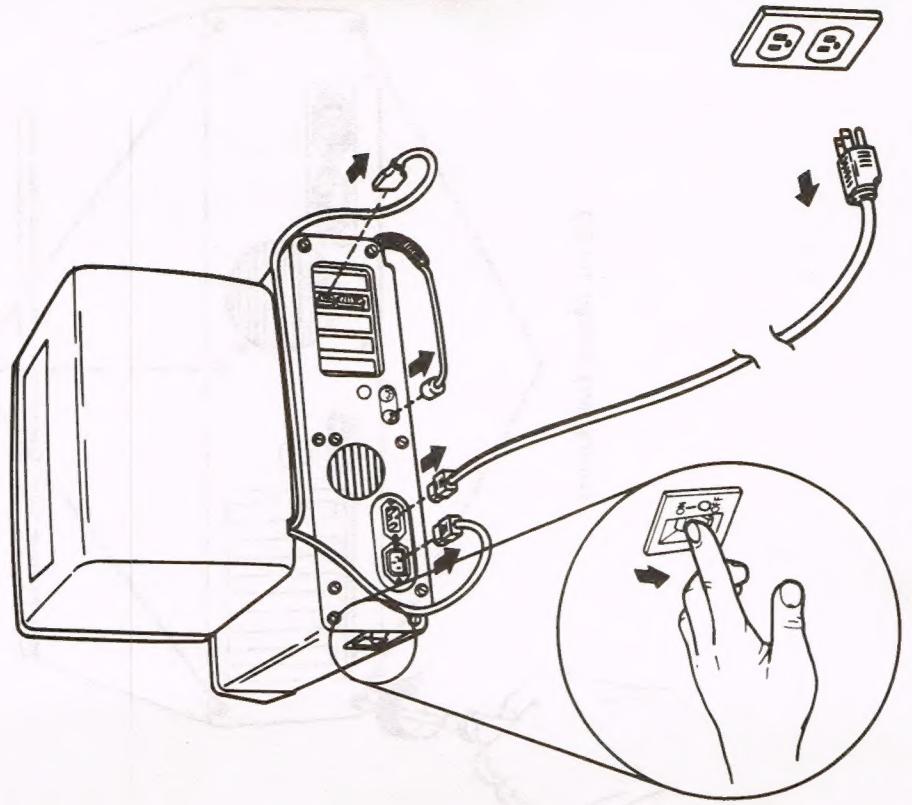
- Medium screwstarter
- 3/16-inch nutdriver
- 1/4-inch nutdriver

System Board Switches			Switch Block 1		Switch Block 2	
						
			640K Total Memory		576K + (64K on System Board)	
			System Board and Memory Option Switch Settings			
			64/256KB Options		64KB Options	
						
			2-64/256KB options with 256KB installed			
						
			1-64KB option			
						
			2-64/256KB options with 256KB installed			
						
			1-64/256KB option with 64KB installed			
						

MEMORY

Installation Instructions

1. Set the Power switch on the system unit (and expansion unit, if attached) to Off.
2. Set all external power switches Off (printer, TV, etc.).
3. Unplug the system unit's (and expansion unit's) power cord from the wall outlet.
4. Disconnect all cables from the rear of the system unit.



System Board and Memory Option Switch Settings

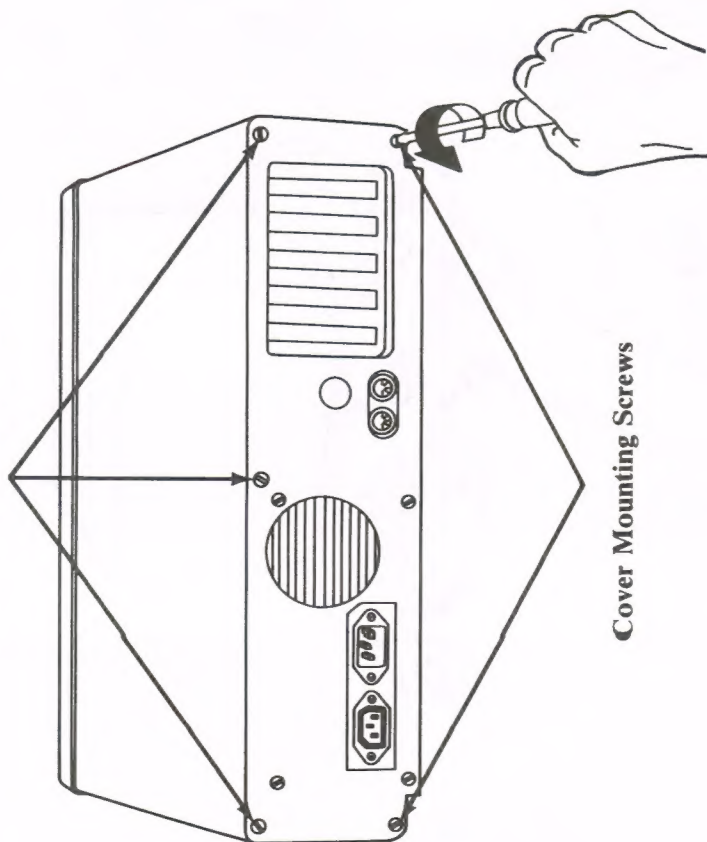
608K Total Memory
544K + (64K on System Board)

<p>System Board Switches</p> <p>Switch Block 1</p>	<p>Switch Block 2</p>	<p>64/256KB Options</p> <p>64KB Options</p> <p>32KB Options</p>
--	-----------------------	---

2-64/256KB options with 256KB installed
1-32KB option

5. Move your keyboard and all external options away from the work area.
6. Position the system unit to allow access to the rear.
7. Use a flat-blade screwdriver or 1/4-inch nutdriver and remove the five cover mounting screws by turning them counterclockwise as shown in the figure below. Save the screws for the installation of the cover.







Cover Mounting Screws
(These three screws may not be present on your system unit)



Cover Mounting Screws

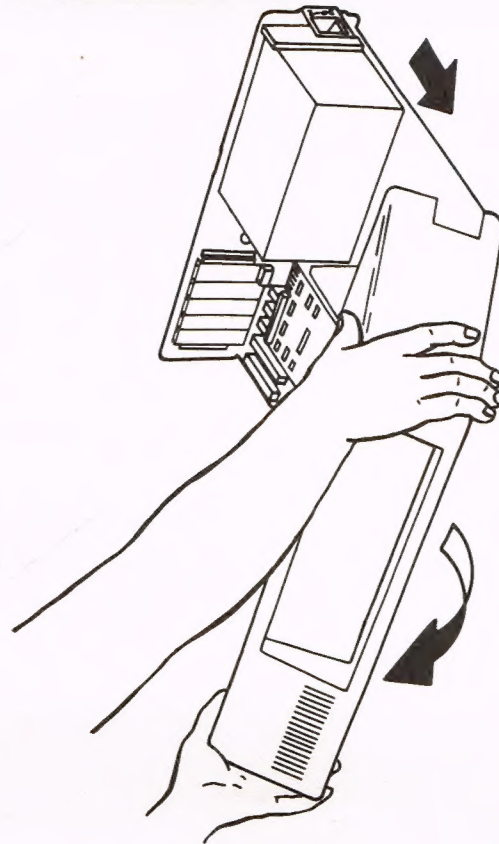
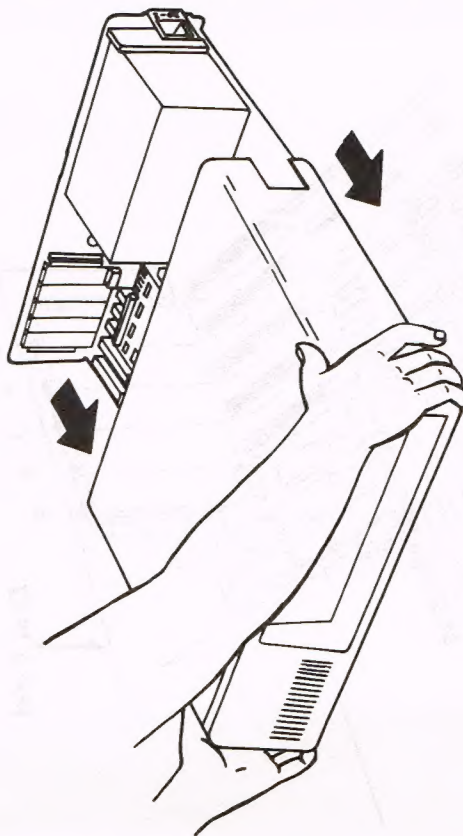
System Board and Memory Option Switch Settings

576K Total Memory
512K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
			
		32KB Options	
64/256KB Options			
			
		64KB Options	
2-64/256KB options with 256KB installed			
			
		32KB Options	

1-64/256KB option with 256KB installed
1-64/256KB option with 192KB installed
1-64KB option

8. Carefully slide the system unit's cover away from the rear and to the front as indicated in the figure below. When the cover will go no further, tilt it up, remove it from the base, and set it aside.



System Board and Memory Option Switch Settings

544K Total Memory
480K + (64K on System Board)

System Board Switches		Switch Block 1		Switch Block 2	
64/256KB Options		64KB Options		32KB Options	
1-64/256KB option with 256KB installed		1-64/256KB option with 192KB installed		1-32KB option	

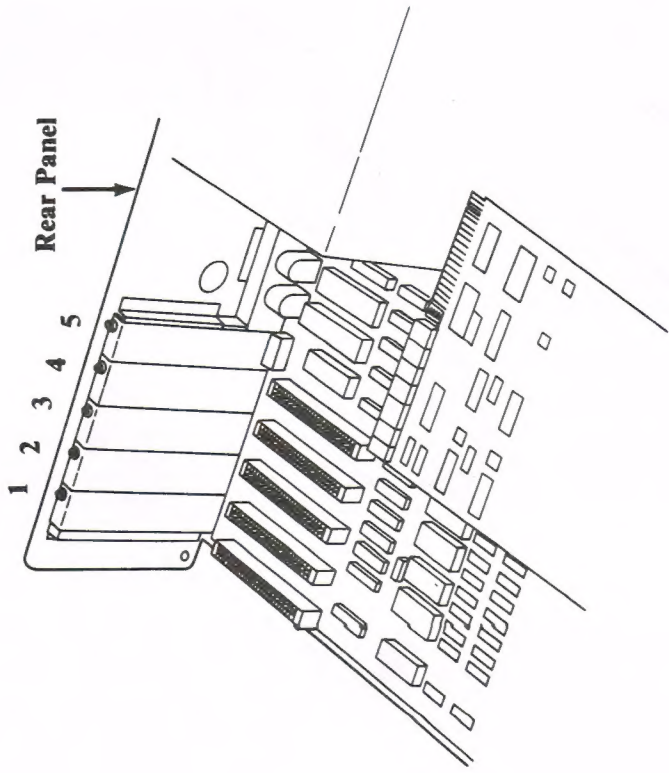
1-64/256KB option with 256KB installed
1-64/256KB option with 192KB installed
1-32KB option

64/256KB Options

64KB Options



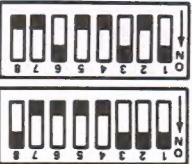

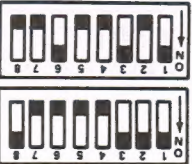

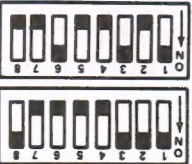

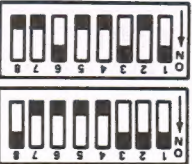

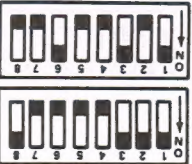

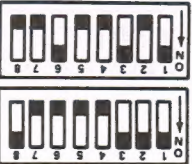

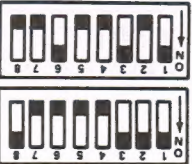

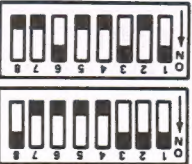

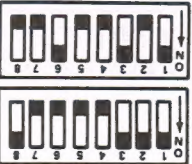

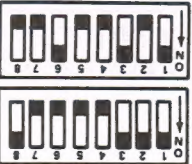

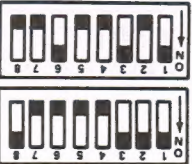

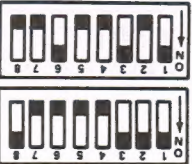

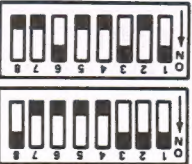

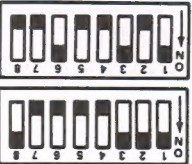

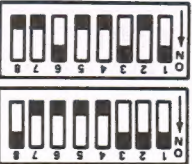

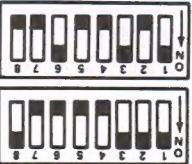

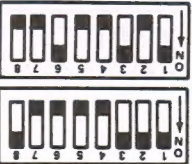

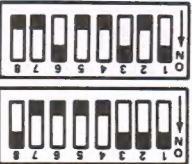

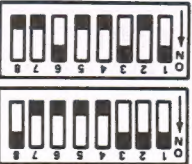

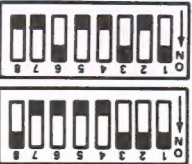

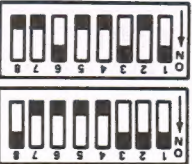

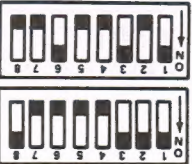

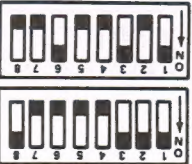

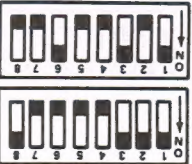

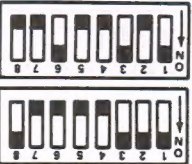

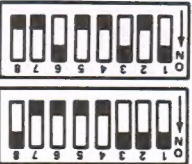

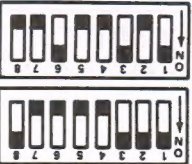

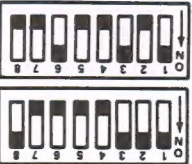

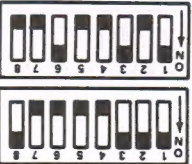

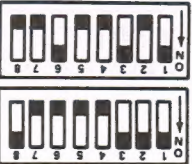

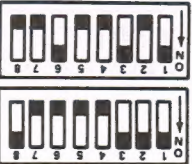

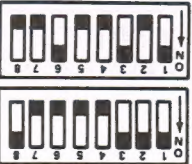

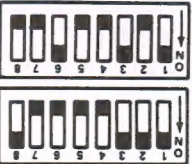

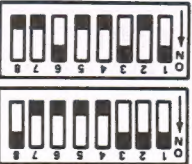

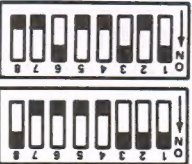

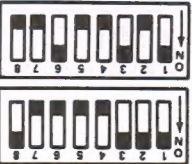

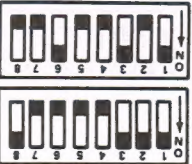

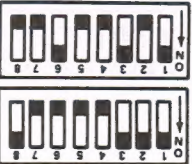

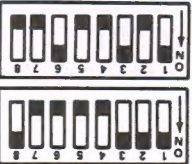

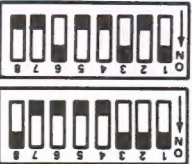

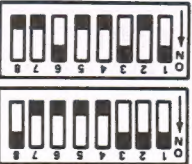

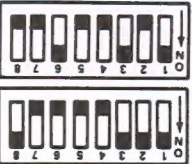

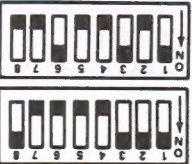

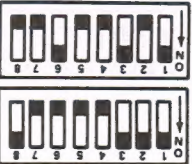

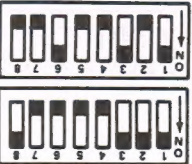

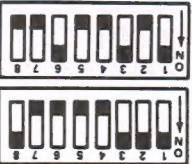

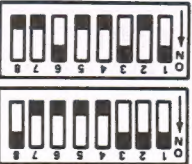

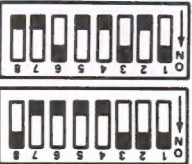

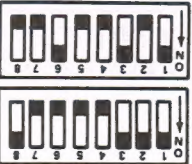

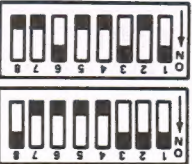

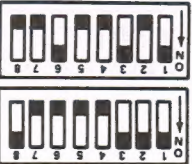

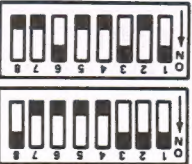

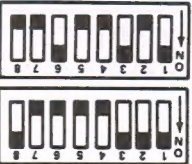

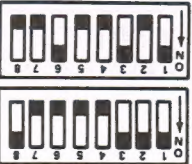

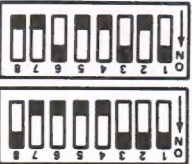

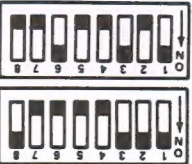

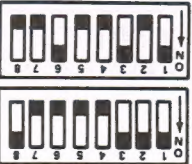

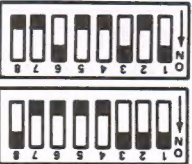

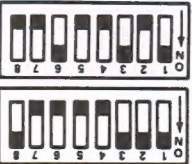

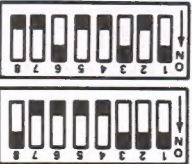

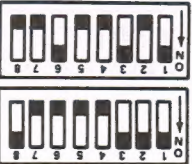

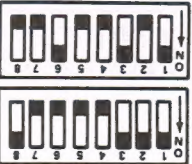

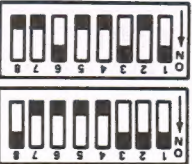

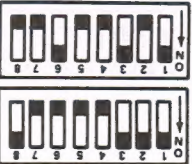

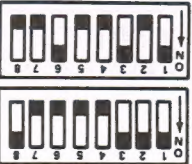

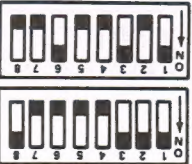

32KB Options

9. Look at the inside left rear of your system unit. There are five expansion slots. You can install your option in any unused slot.





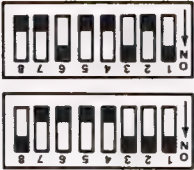

System Board and Memory Option Switch Settings

**512K Total Memory
448K + (64K on System Board)**

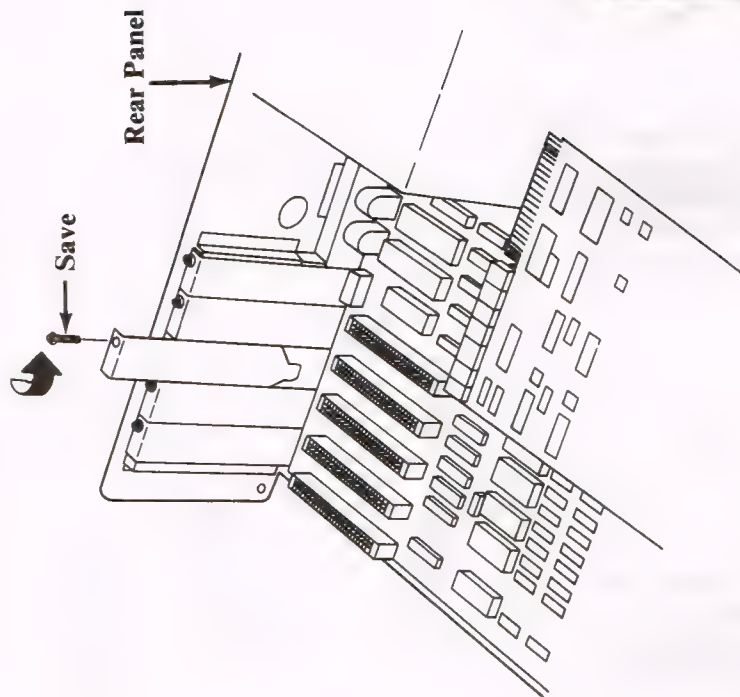
System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			
64/256KB Options			

System Board and Memory Option Switch Settings

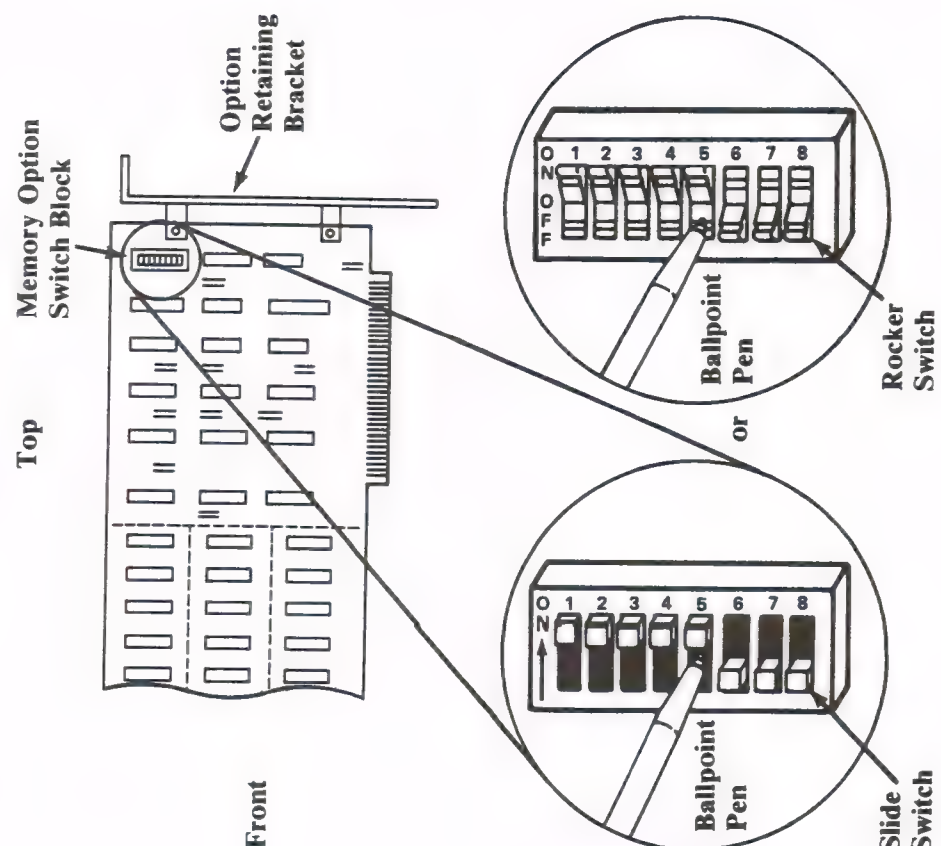
480K Total Memory
416K + (64K on System Board)

System Board Switches			
Switch Block 1	Switch Block 2	64/256KB Options	32KB Options
			
1-64/256KB option with 256KB installed 1-64/256KB option with 128KB installed 1-32KB option			

10. Use a flat-blade screwdriver or 3/16-inch nutdriver and remove the screw that holds the expansion slot in place by turning the screw counterclockwise. Save the screw for the installation of the option.



11. Place the option on a flat surface with the switches and components up. Study the figure below and familiarize yourself with the 64/256KB Memory Expansion Option. The switches on the option must reflect the amount of memory installed on the option itself and within the system unit.



Note: Set a rocker switch to the desired position by pressing down the rocker.

System Board and Memory Option Switch Settings
448K Total Memory (continued)
384K + (64K on System Board)

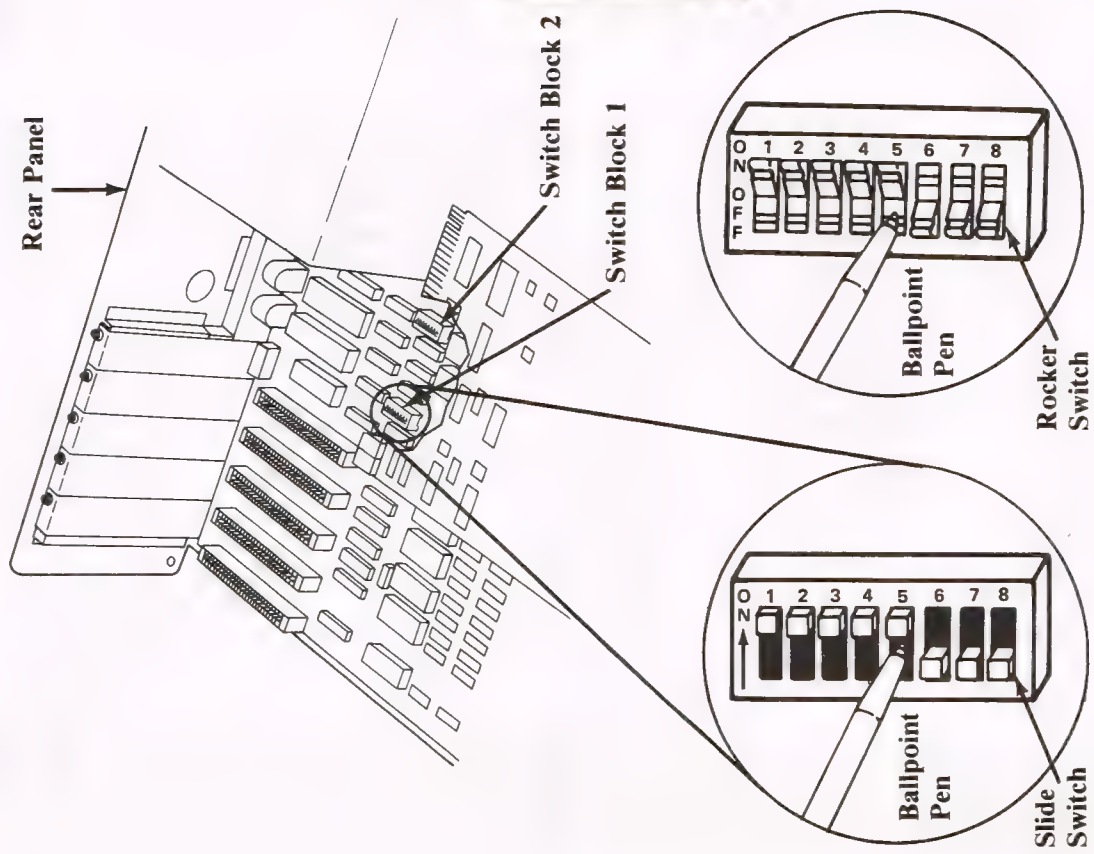
System Board Switches		Switch Block 1	Switch Block 2
		64/256KB Options	64KB Options
		32KB Options	
		64/256KB Options	64KB Options
		32KB Options	
		64/256KB option with 256KB B installed	1-64/256KB option with 128KB B installed

MEMORY

System Board and Memory Option Switch Settings			
448K Total Memory 384K + (64K on System Board)			
System Board Switches	Switch Block 1	Switch Block 2	
64/256KB Options	64/256KB Options	64KB Options	32KB Options
1-64/256KB option with 256KB installed 1-64KB option	1-64/256KB option with 256KB installed 1-64KB option		
1-64/256KB option with 256KB installed 2-64KB options			

CONTINUED

12. The switches on the system board are set to reflect the amount of memory in your system. Take a minute to familiarize yourself with their location. Use a ballpoint pen to set the switches on the system board and memory option according to the charts on the following pages.



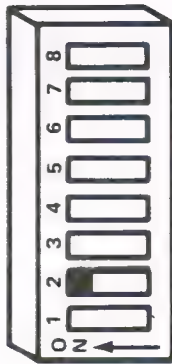
Note: Set a rocker switch to the desired position by pressing down the rocker.

Switch Setting Charts

System Board Switches

WARNING: Before you change any switch settings, make a note of how the switches are presently set. After the option has been installed, verify that only the switches described in the option installation instructions have been changed.

Switch Block 1

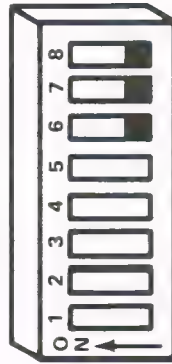


Switch

Function

- 1-7-8 Number of 5-1/4 inch Diskette Drives installed.
- 2 Unused - must be on.
- 3-4 Amount of memory on system board.
- 5-6 Type(s) of display(s) connected.

Switch Block 2













Switch









Function

- 1-2-3-4-5 Amount of memory options installed.
- 6-7-8 Always in the off position.

System Board and Memory Option Switch Settings


416K Total Memory
352K + (64K on System Board)

System Board Switches		64/256KB Options		64KB Options		32KB Options	
							
							
							
							


System Board and Memory Option Switch Settings			
384K Total Memory (continued) 320K + (64K on System Board)			
System Board Switches	Switch Block 1	Switch Block 2	
			
	64/256KB Options	64KB Options	32KB Options
			
	1-64/256KB option with 256KB installed		
			
	1-64/256KB option with 256KB B installed		
			
			2-32KB options

Number of 5-1/4 inch Diskette Drives installed.

Switch Block 1

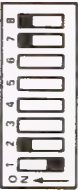


Switch Block 2




0 - Drives

Switch Block 1




Switch Block 2




1 - Drive

Switch Block 1



Switch Block 2



2 - Drives


Type(s) of display(s) connected

WARNING: If an IBM Monochrome Display is connected to your system, Switch Block 1, switches 5 and 6, must always be off. Damage to your display can result with any other switch settings.


IBM Monochrome Display
(or IBM Monochrome
Display plus another display)

Color Display (Do not use if
an IBM Monochrome
Display is connected)

Switch Block 1




Switch Block 2




IBM Monochrome Display
(or IBM Monochrome
Display plus another display)

Switch Block 1

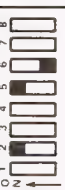


Switch Block 2

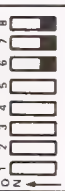


40x25
Mode

Switch Block 1



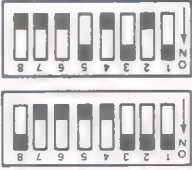

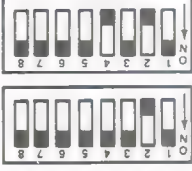





Switch Block 2



80x25
Mode



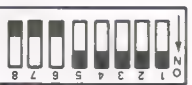





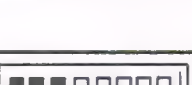
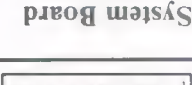
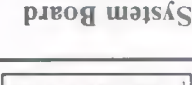

Note: The 40x25 mode indicates there will be 40 characters across the screen and 25 lines down the screen. The 80x25 mode indicates there will be 80 characters across the screen and 25 lines down the screen. The 80x25 mode, when used with home televisions and various displays, can cause loss of character quality.

CONTINUED

		 	1-64/256KB option with 256KB installed 1-64/256KB option with 64KB installed
	 		1-64/256KB option with 192KB installed 2-64KB options
32KB Options	64KB Options	64/256KB Options	
System Board Switches 	Switch Block 1 	Switch Block 2 	

384K Total Memory
 320K + (64K on System Board)

System Board and Memory Option Switch Settings

System Board Switches 	Switch Block 1 	Switch Block 2 	
System Board Switches 	Switch Block 1 	Switch Block 2 	
System Board Switches 	Switch Block 1 	Switch Block 2 	
System Board Switches 	Switch Block 1 	Switch Block 2 	

16K of Memory on System Board

32K of Memory on System Board






48K of Memory on System Board

64K of Memory on System Board

System Board Memory Switch Setting




System Board and Memory Option Switch Settings

352K Total Memory
288K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
1-64/256KB option with 192KB installed	1-32KB option	64/256KB Options	32KB Options
		64KB Options	
1-64/256KB option with 256KB installed	1-32KB option		






System Board and Memory Option Switch Settings

96K Total Memory
32K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
		64/256KB Options	64KB Options
1-32KB option			






System Board and Memory Option Switch Settings

128K Total Memory
64K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
64/256KB option with 64KB installed			
I-64KB option			
2-32KB options			

System Board and Memory Option Switch Settings

320K Total Memory (continued)
256K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
64/256KB option with 192KB installed			
2-32KB options			
I-64/256KB option with 256KB installed			

System Board and Memory Option Switch Settings

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options		64KB Options	32KB Options
1-64/256KB option with 64KB installed	1-32KB option	1-64KB option	3-32KB options

160K Total Memory
96K + (64K on System Board)

CONTINUED



System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options		64KB Options	32KB Options
1-64/256KB option with 128KB installed	2-64KB options	1-64/256KB option with 192KB installed	1-64KB option

320K Total Memory
256K + (64K on System Board)



System Board and Memory Option Switch Settings

System Board and Memory Option Switch Settings

288K Total Memory
224K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
64/256KB Options	64KB Options	32KB Options	
1-64/256KB option with 192KB installed			
1-32KB option			
1-64/256KB option with 128KB installed			
1-64KB option			
1-32KB option			

CONTINUED











System Board Switches		Switch Block 1	Switch Block 2
			
64/256KB Options	64KB Options	32KB Options	
1-64/256KB option with 64KB installed			
1-64KB option			
2-64KB options			
1-64/256KB option with 64KB installed			
2-32KB options			

192K Total Memory
128K + (64K on System Board)

System Board and Memory Option Switch Settings









System Board and Memory Option Switch Settings

256K Total Memory (continued)
192K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
3-64KB options		  	 
1-64/256KB option with 128KB installed 2-32KB options			 

System Board and Memory Option Switch Settings








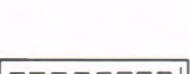
192K Total Memory (continued)
128K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
1-64KB option 2-32KB options		 	 
1-64/256KB option with 128KB installed			

CONTINUED






System Board and Memory Option Switch Settings

224K Total Memory
160K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
		64/256KB Options	32KB Options
1-64/256KB option with 64KB installed	1-64KB option		
2-64KB options	1-32KB option		
1-64/256KB option with 128KB installed	1-32KB option		

System Board and Memory Option Switch Settings

256K Total Memory
192K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
		64/256KB Options	32KB Options
1-64/256KB option with 192KB installed			
1-64/256KB option with 128KB installed	1-64KB option		
1-64/256KB option with 64KB installed	2-64KB options	